FIG. 1A

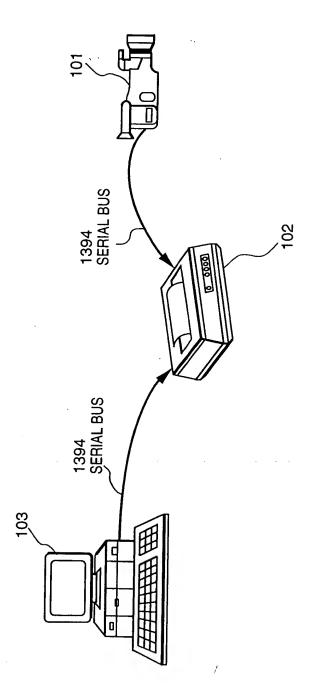


FIG. 1B

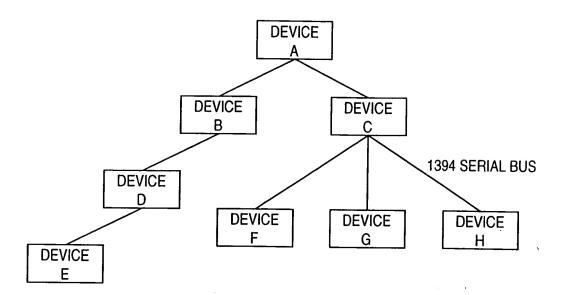


FIG. 2

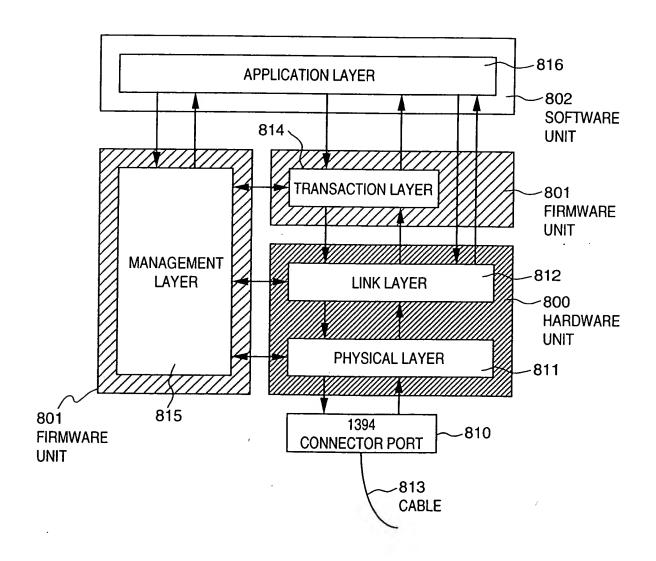


FIG. 3

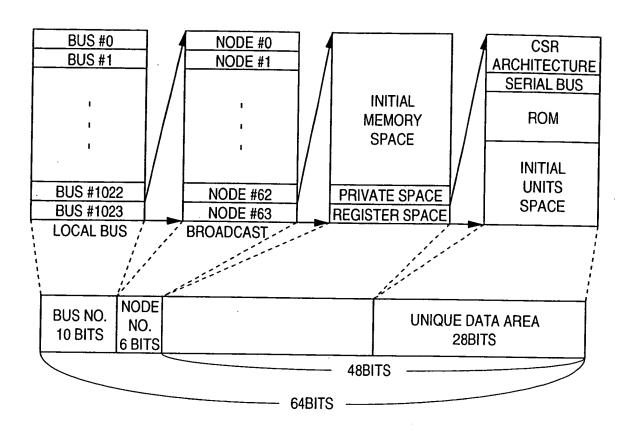


FIG. 4

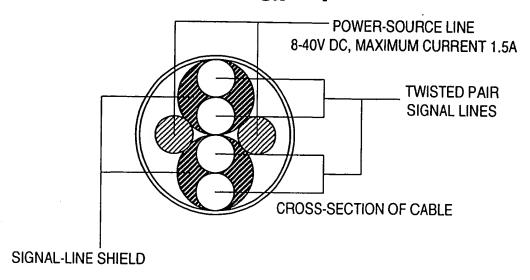
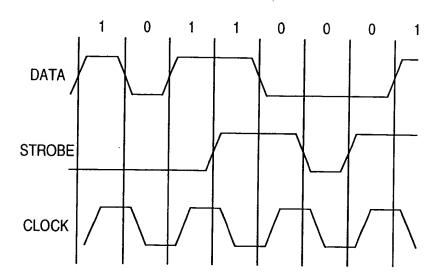


FIG. 5



CLOCK: EXCLUSIVE-OR SIGNAL BETWEEN DATA AND STROBE

FIG. 6

-- 11

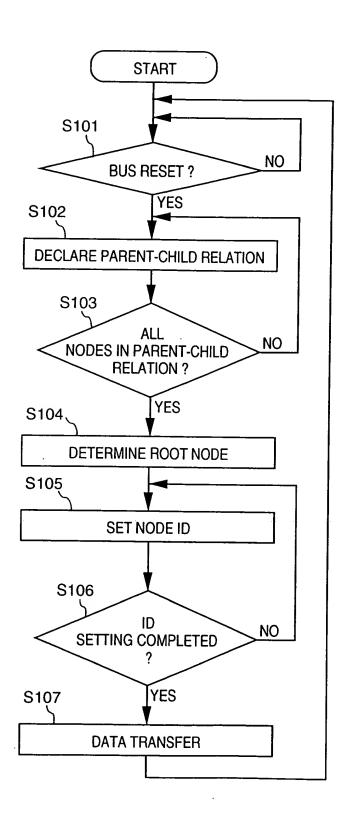
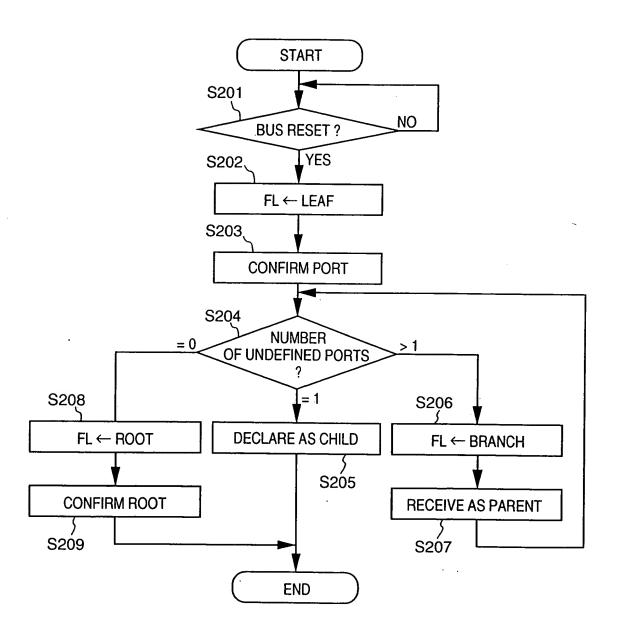


FIG. 7



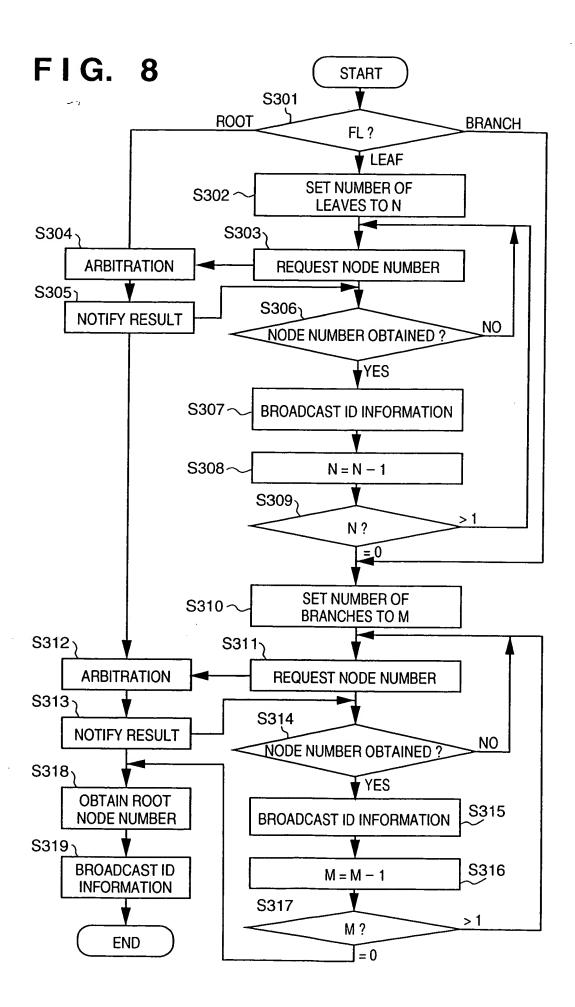
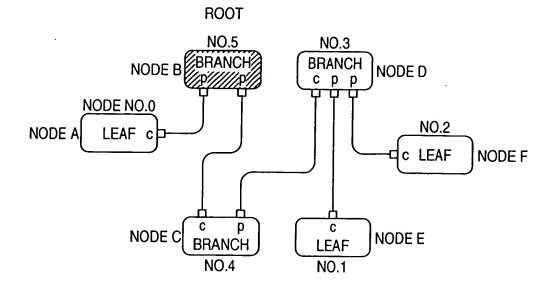


FIG. 9



BRANCH: NODE WITH TWO OR MORE NODE CONNECTIONS

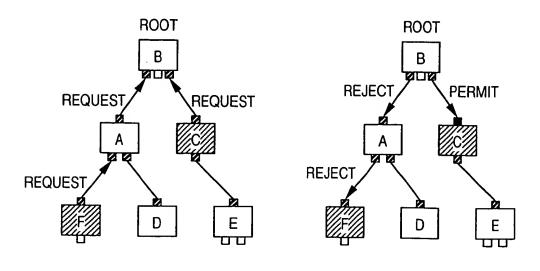
LEAF: NODE WITH SINGLE PORT CONNECTION

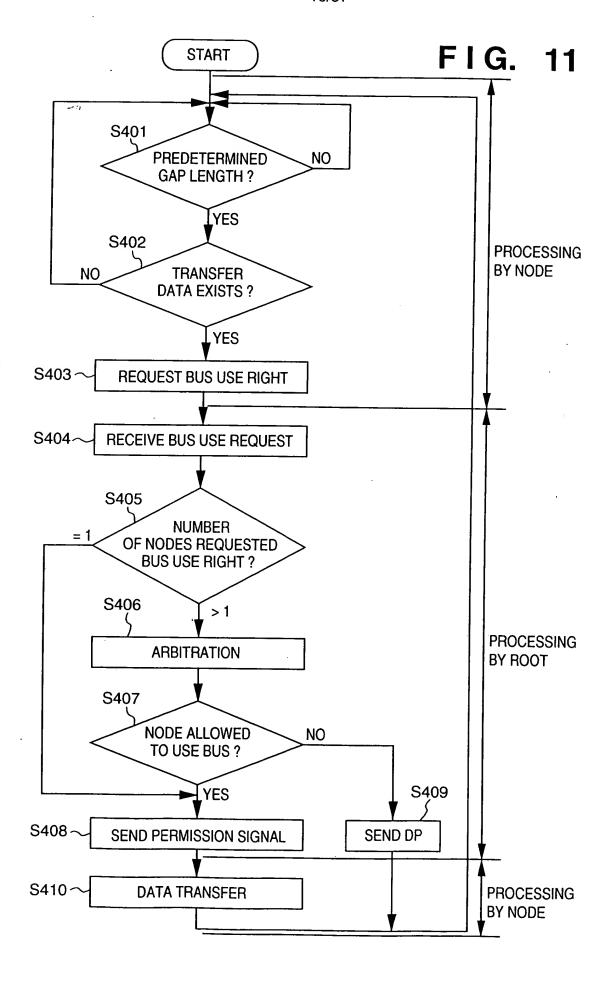
□: PORT

c: PORT CORRESPONDING TO CHILD NODE p: PORT CORRESPONDING TO PARENT NODE

FIG. 10A

FIG. 10B





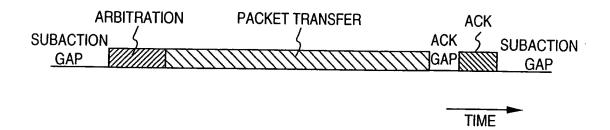
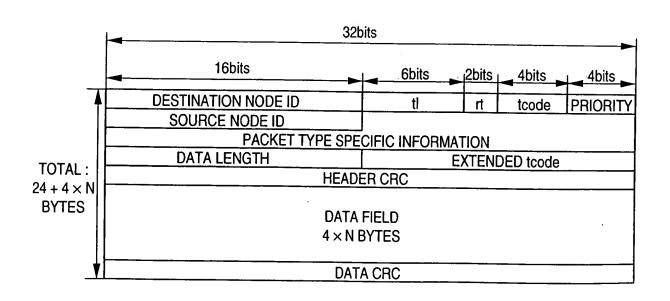
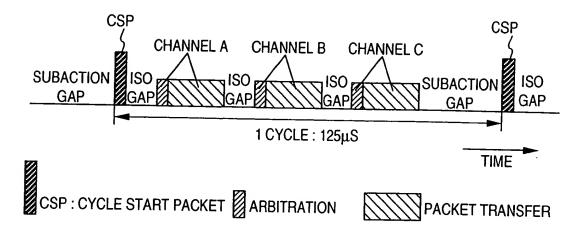


FIG. 13





ISO GAP: ISOCHRONOUS GAP

FIG. 15A

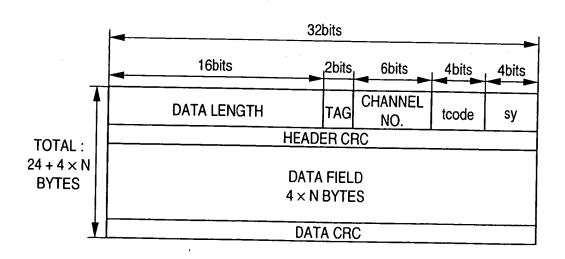


FIG. 15B

ABBREVIATION	NAME	CONTENT
destination_ID	destination identifier	ID OF DESTINATION NODE (ASYNCHRONOUS ONLY)
t1	transaction label	LABEL INDICATING A SERIES OF TRANSACTIONS (ASYNCHRONOUS ONLY)
rt	retry code	CODE INDICATING RETRANSMISSION STATUS (ASYNCHRONOUS ONLY)
tcode	transaction code	CODE INDICATING PACKET TYPE (ASYNCHRONOUS ONLY)
pri	priority	PRIORITY ORDER (ASYNCHRONOUS ONLY)
source_ID	source identifier	SOURCE NODE (ASYNCHRONOUS ONLY)
destination_ offset	destination memory address	MEMORY ADDRESS OF DESTINATION NODE (ASYNCHRONOUS ONLY)
rcode	response code	RESPONSE STATUS (ASYNCHRONOUS ONLY)
quadiet_data	quadiet(4bytes) data	4-BYTE LENGTH DATA (ASYNCHRONOUS ONLY)
data_length	length of data	LENGTH OF data_field (EXCEPT pad bytes)
extended_tcode	extended transaction code	EXTENDED TRANSACTION CODE (ASYNCHRONOUS ONLY)
chanel	isochronous identifier	IDENTIFICATION OF ISOCHRONOUS PACKET
sy	synchronization code	SYNCHRONIZATION OF VIDEO IMAGE AND AUDIO INFORMATION
cycle_time_data	contents of the CYCLE_TIME register	CYCLE TIMER REGISTER VALUE OF CYCLE MASTER NODE (CYCLE PACKET ONLY)
data_field	data + pad bytes	DATA STORAGE (ISOCHRONOUS AND ASYNCHRONOUS)
header_CRC	CRC for header field	CRC FOR HEADER
data_CRC	CRC for data field	CRC FOR DATA
tag	tag label	ISOCHRONOUS PACKET FORMAT

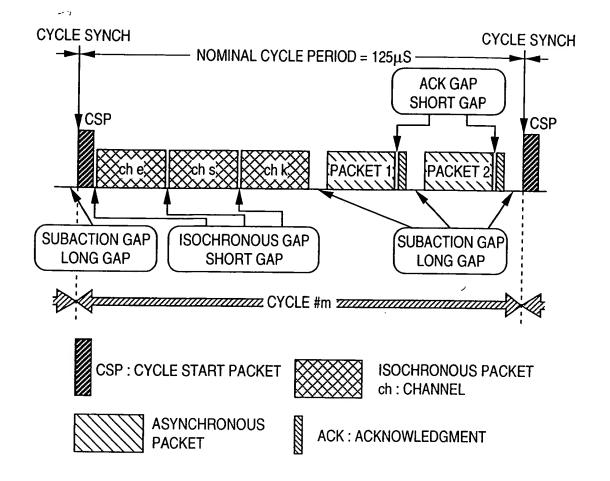


FIG. 17

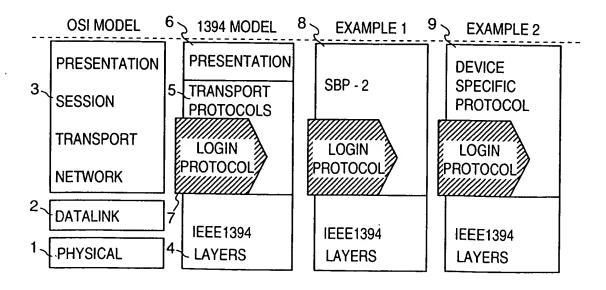


FIG. 18

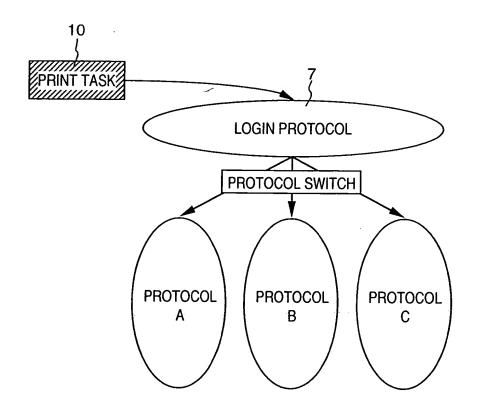


FIG. 19

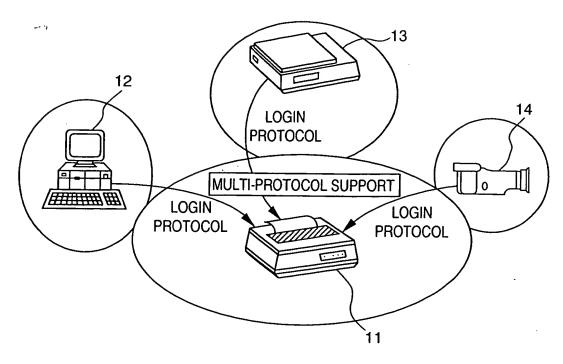
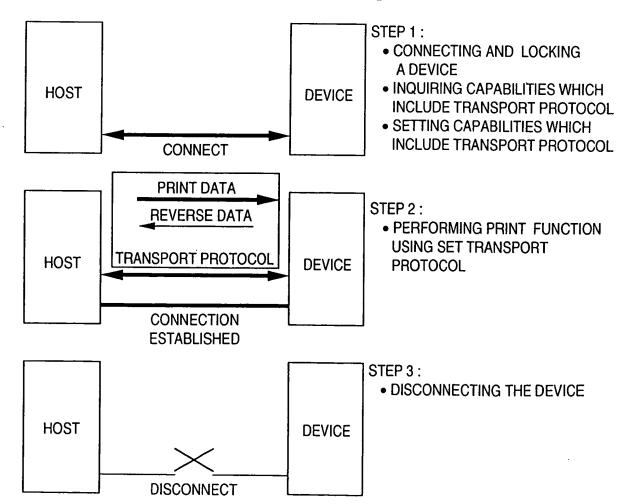


FIG. 20



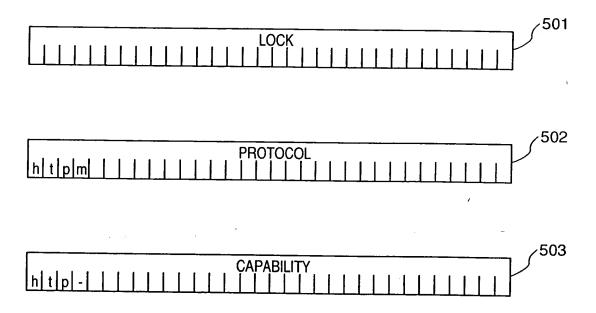


FIG. 22

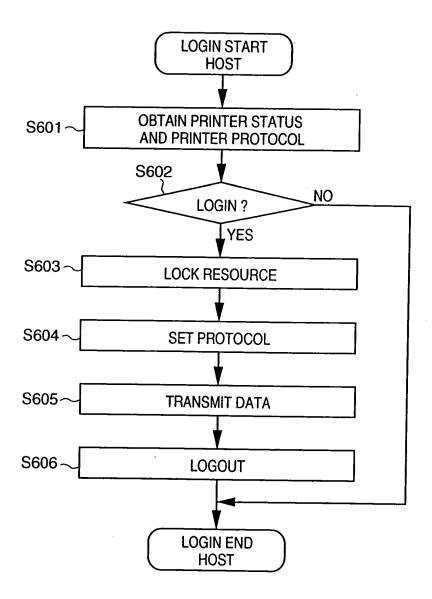


FIG. 23

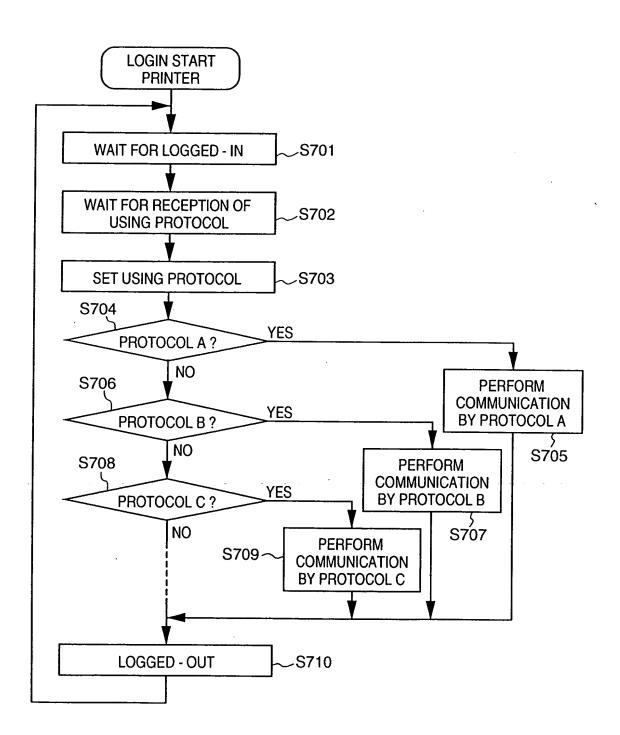


FIG. 24

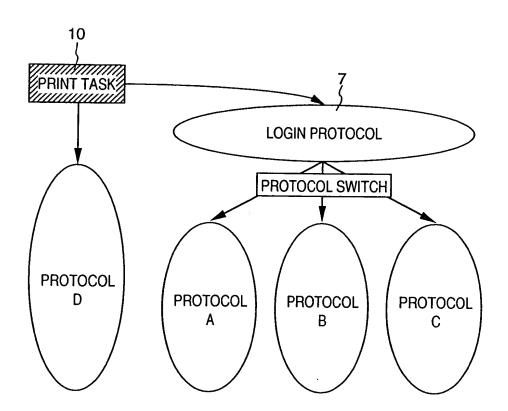


FIG. 25

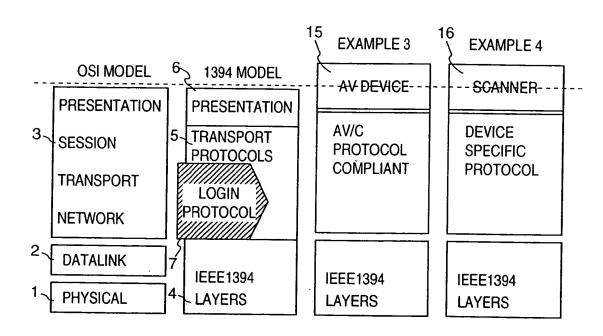


FIG. 26A CSR CORE REGISTER

OFFSET (hexadecimal)	REGISTER NAME	FUNCTION
000	STATE_CLEAR	INFORMATION ON STATUS AND CONTROL
004	STATE_SET	INFORMATION ON WRITE ENABLE/DISABLE STATUS OF STATE CLEAR
008	NODE_IDS	BUS ID + NODE ID
00C	RESET_START	TO RESET BUS BY WRITING INTO THIS AREA
010~014	INDIRECT_ADDRESS, INDIRECT_DATA	REGISTER TO ACCESS ROM AREA GREATER THAN 1KB
018~01C	SPLIT_TIMEOUT	TIMER VALUE TO DETECT TIME-OUT OF SPLIT TRANSACTION
020~02C	ARGUMENT, TEST_START, TEST_STATUS	REGISTER FOR DIAGNOSIS
030~04C	UNITS_BASE, UNITS_BOUND, MEMORY_BASE, MEMORY_BOUND	NOT INSTALLED IN IEEE 1394
050~054	INTERRUPT_TARGET, INTERRUPT_MASK	REGISTER OF INTERRUPTION NOTIFICATION
058~07C	CLOCK_VALUE, CLOCK_TICK_PERIOD, CLOCK_STOROBE_ARRIVED, CLOCK_INFO	NOT INSTALLED IN IEEE 1394
080~0FC	MESSAGE_REQUEST, MESSAGE_RESPONSE	REGISTER FOR MESSAGE NOTIFICATION
100~17C		RESERVATION
180~1FC	ERROR_LOG_BUFFER	TO RESERVE FOR IEEE 1394

FIG. 26B SERIAL BUS REGISTER

OFFSET (hexadecimal)	REGISTER NAME	FUNCTION
200	CYCLE_TIME	COUNTER FOR ISOCHRONOUS TRANSFER
204	BUS_TIME	REGISTER FOR TIME SYNCHRONIZATION
208	POWER_FAIL_IMMINENT	
20C	POWER_SOURCE	HEGISTER RELATING TO POWER SUPPLY
210	BUSY_TIMEOUT	TO CONTROL RETRY IN TRANSACTION LAYER
214~218		RESERVATION
21C	BUS_MANAGER_ID	NODE ID OF BUS MANAGER
220	BANDWIDTH_AVAILABLE	TO MANAGE ISOCHRONOUS TRANSFER BAND
224~228	CHANNELS_AVAILABLE	TO MANAGE CHANNEL NUMBER FOR ISOCHRONOUS TRANSFER
22C	MAINT_CONTROL	
230	MAINT_UTILITY	HEGISTER FOR DIAGNOSIS
234~3FC		RESERVATION
7		

FIG. 26C

SERIAL-BUS NODE RESOURCE REGISTER

· 3		T		<u> </u>	T	
ייין ניטט ייטטר וורטטטן וער יירענט ווייין איני איני איני איני איני איני איני	FUNCTION	RESERVATION	INFORMATION ON SERIAL BUS STRUCTURE	RESERVATION	INFORMATION ON TRANSFER SPEED OF SERIAL BUS	RESERVATION
	REGISTER NAME		TOPOLOGY-MAP		SPEED-MAP	
	OFFSET (hexadecimal)	800~FFC	1000~13FC	1400~1FFC	2000~2FFC	3000~FFFC

FIG. 26D

MINIMUM FORMAT CONFIGURATION ROM

o1 VENDOR ID

FIG. 26E

FIG. 27A

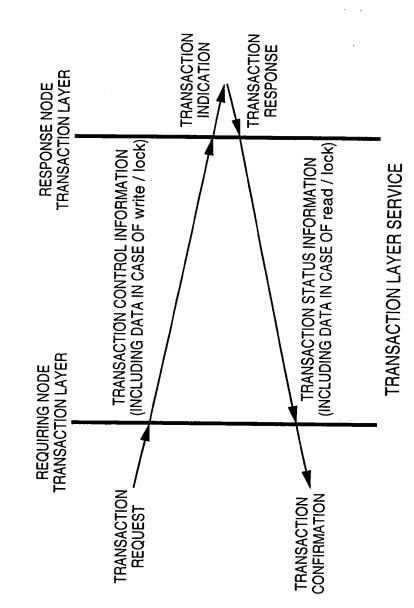
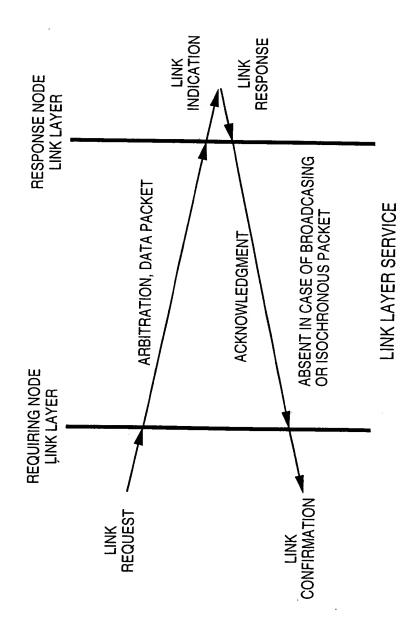
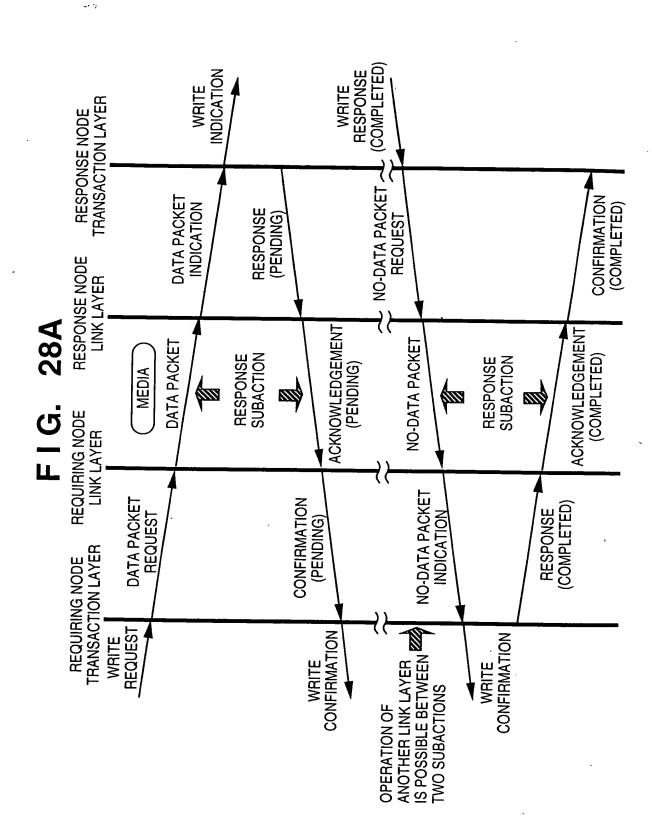


FIG. 27B





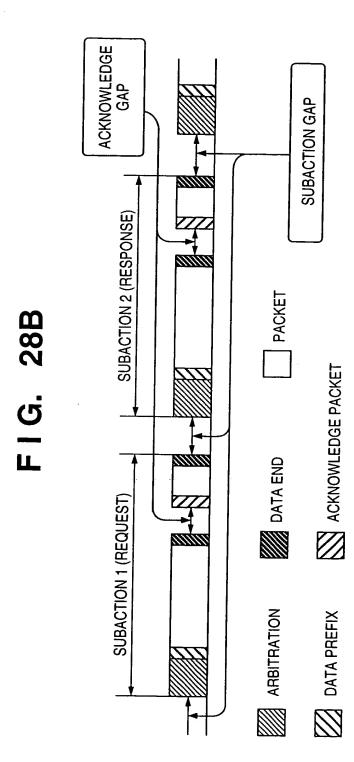


FIG. 29

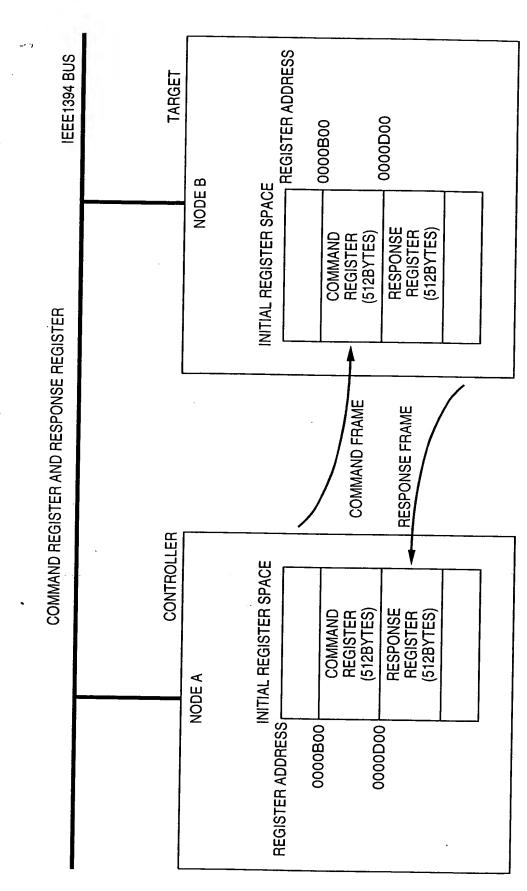
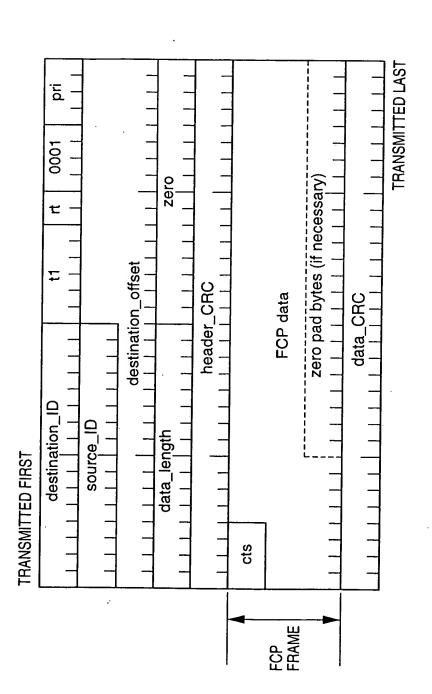


FIG. 30



F I G. 31AV/C COMMAND FRAME

TRANSMITTED FIRST

operand [0]	operand [4]	essary)
epoodo	operand [3]	zero pad bytes (if necessary)
ctype subunit_type subunit	operand [2]	zero
0000 ctype	operand [1]	operand [n]

TRANSMITTED LAST

FIG. 32

AV/C RESPONSE FRAME

TRANSMITTED FIRST			
0000 response	response subunit_type subunit	apoodo -	operand [0]
operand [1]	operand [2]	operand [3]	operand [4]
	•	:	
operand [n]	zer	zero pad bytes (if necessary)	essary)

TRANSMITTED LAST

FIG. 33

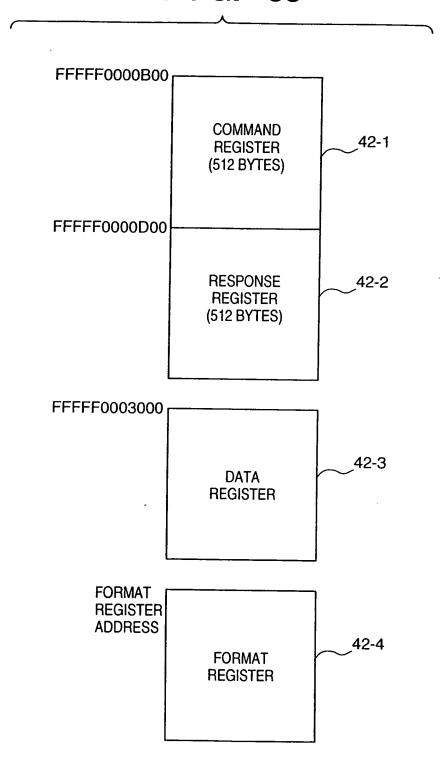
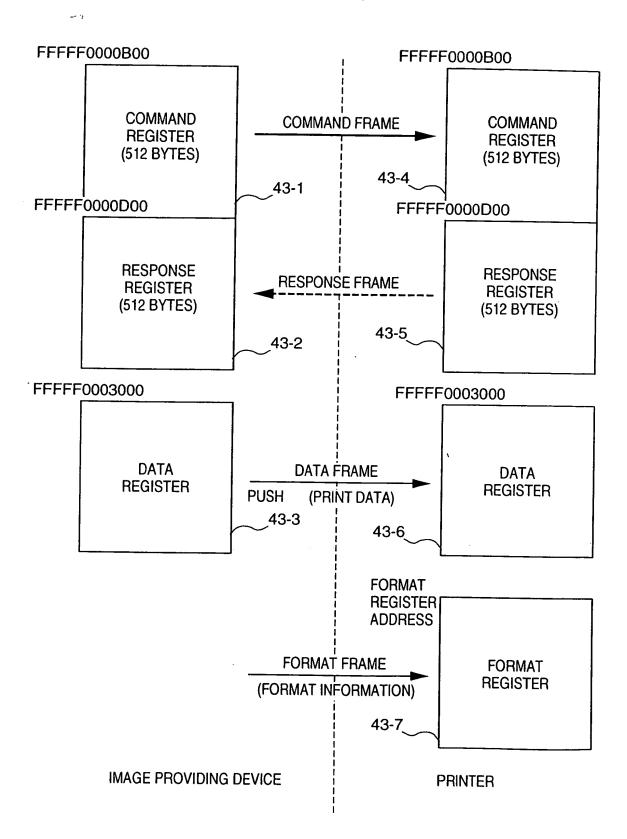


FIG. 34



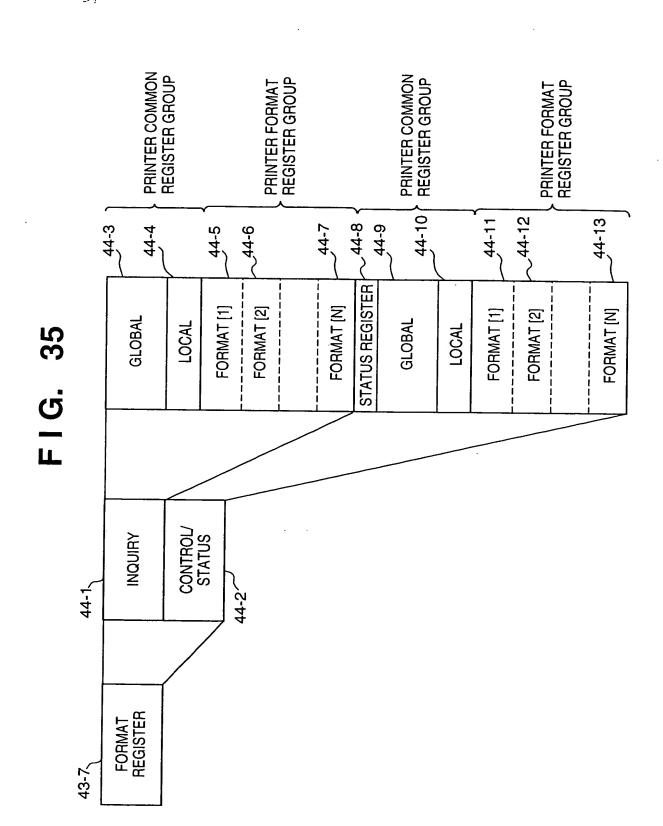


FIG. 36

د. ب

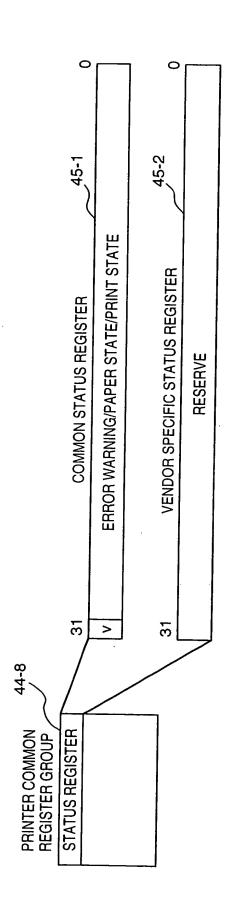


FIG. 37

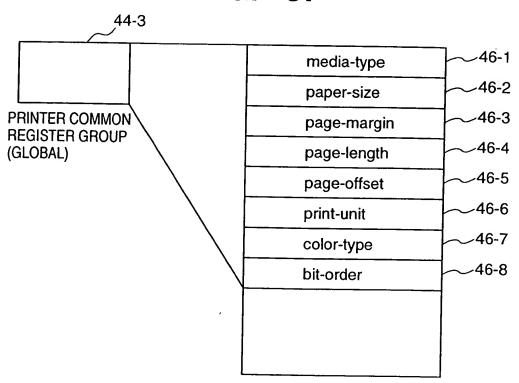


FIG. 38

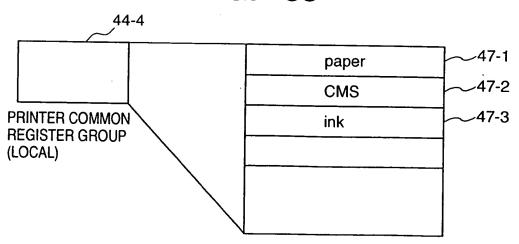


FIG. 39

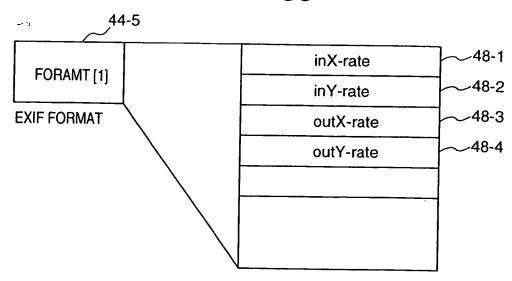


FIG. 40

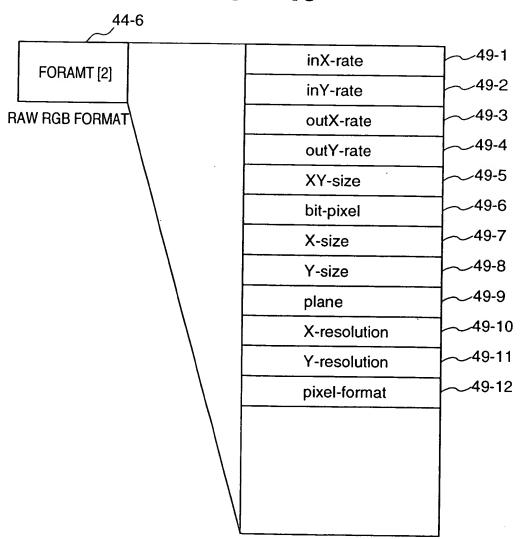


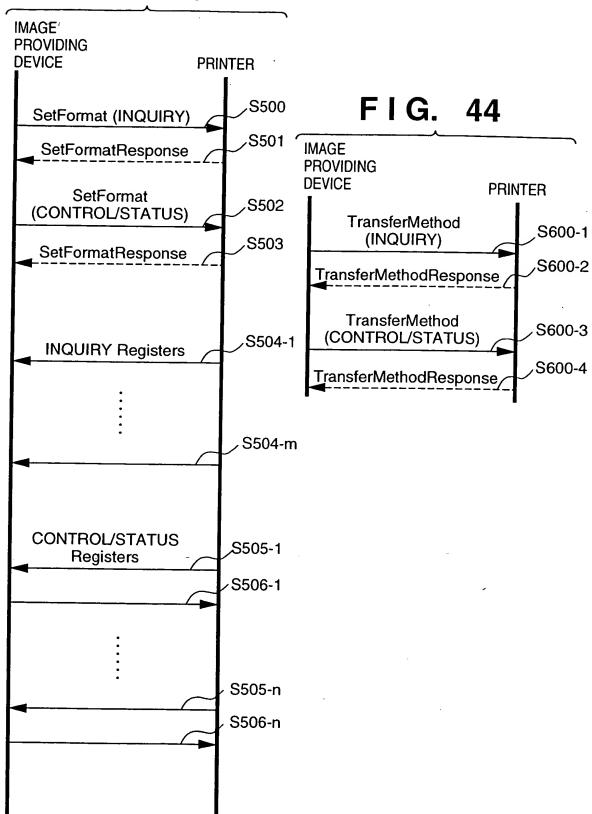
FIG. 41

COMMAND CLASSIFICATION	COMMAND	RESPONSE	
STATUS	GetStatus	GetStatusResponse	50
CONTROL	PrintReset	Print ResetResponse	50
	PrintStart	PrintStartResponse	50
	PrintStop	PrintStopResponse	50
	InsertPaper	InsertPaperResponse	50
	EjectPaper	EjectPaperResponse	50
	CopyStart	CopyStartResponse	50
	CopyEnd	CopyEndResponse	50
BLOCK / BUFFER	BlockSize	BlockSizeResponse	50
	BlockAddress	BlockAddressResponse	50
	FreeBlock	FreeBlockResponse	50
	WriteBlocks	WriteBlocksResponse	50
	BufferConfig	BufferConfigResponse	50-
	SetBuffer	SetBufferResponse	50-
CHANNEL -	OpenChannel	OpenChannelResponse	50-
	CloseChannel	CloseChannelResponse	50-
TRANSFER	TransferMethod	TransferMethodResponse	50-
FORMAT	SetFormat	SetFormatResponse	50-
LOG-IN	Login	LoginResponse	50-
	Logout	LogoutResponse	50-
	Reconnect	ReconnectResponse	50-
DATA	WriteBlock		50-
	WriteBuffer		50-
	PullBuffer		50-

FIG. 42

EXIF(TIFF, JPEG)	EXIF NON-COMPRESSED AND COMPRESSED DATA
TIFF/EP	TIFF EXTENDED VERSION
RGB	RGB RAW IMAGE
YUV	YUV RAW IMAGE
YCrCb	YCrCb RAW IMAGE
СМҮК	CMYK RAW IMAGE
Vendor Specific	VENDOR DEFINITION

FIG. 43



. - :-

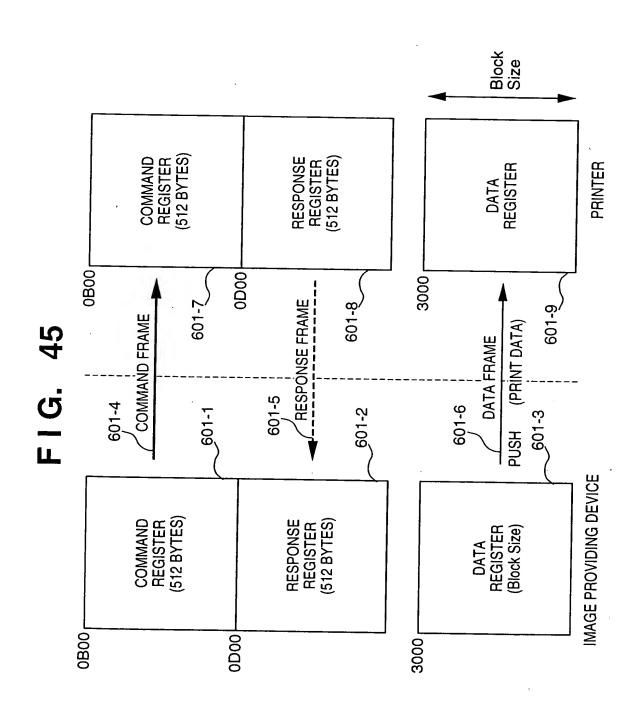


FIG. 46

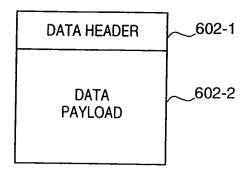
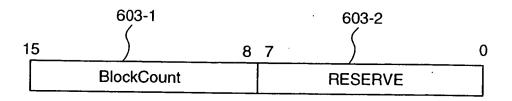
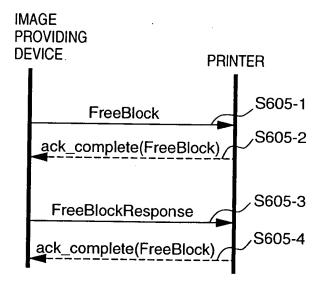


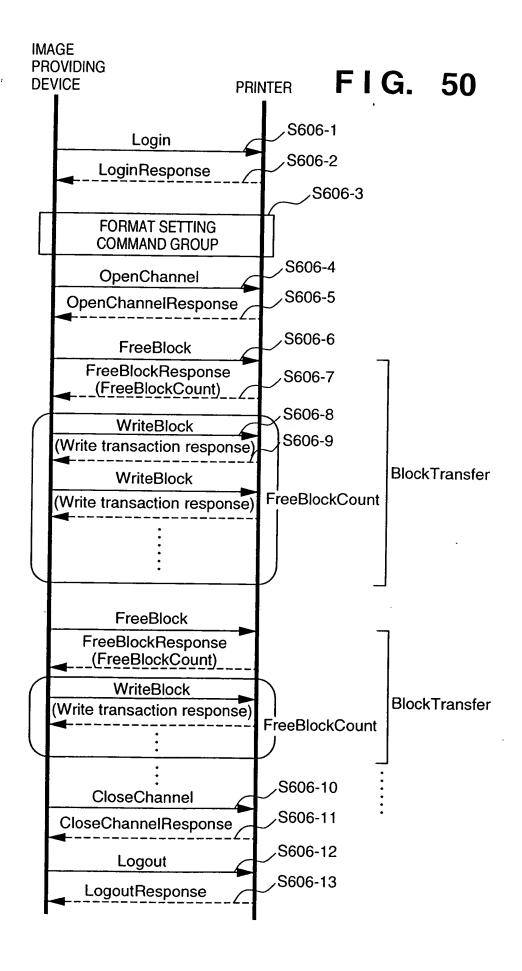
FIG. 47



604-6 MEMORY SPACE Block Block[0] Block[2] Block[n] Block[1] n is BlockCount FIG. 48 **BlockCount BlockCount BlockCount BlockCount** 604-2 604-4 604-3 **BlockCount** DATA REGISTER 604-1 PRINTER **BlockAddress** PUSH

FIG. 49





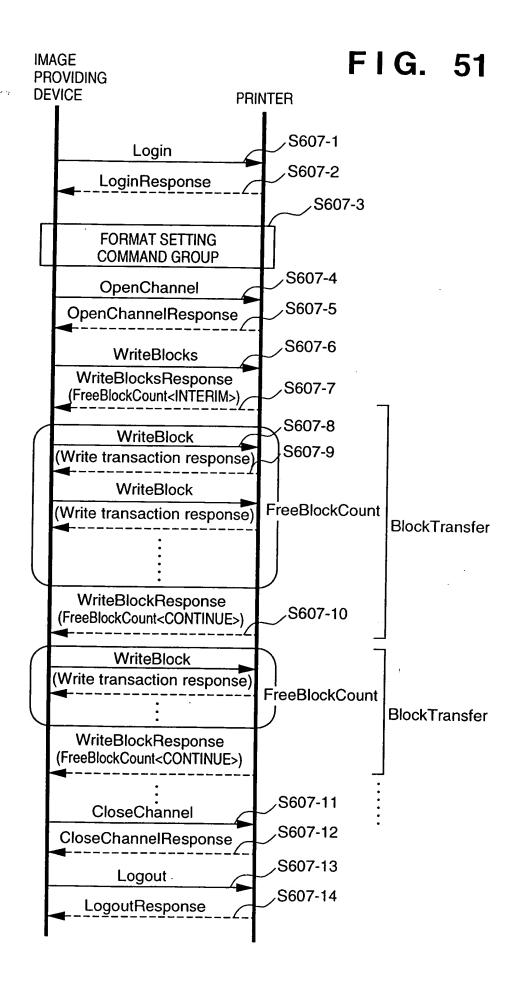


FIG. 52

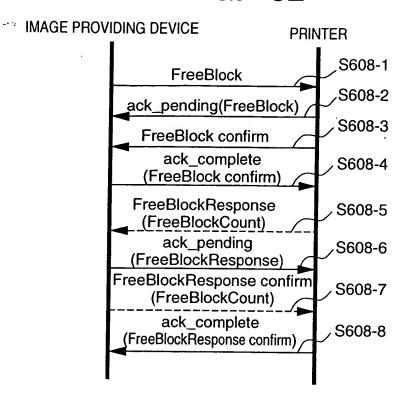


FIG. 53

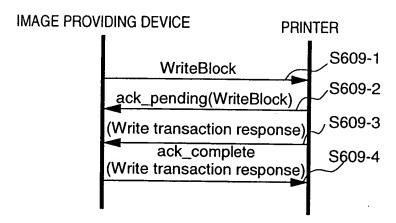


FIG. 54

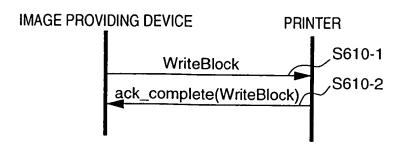
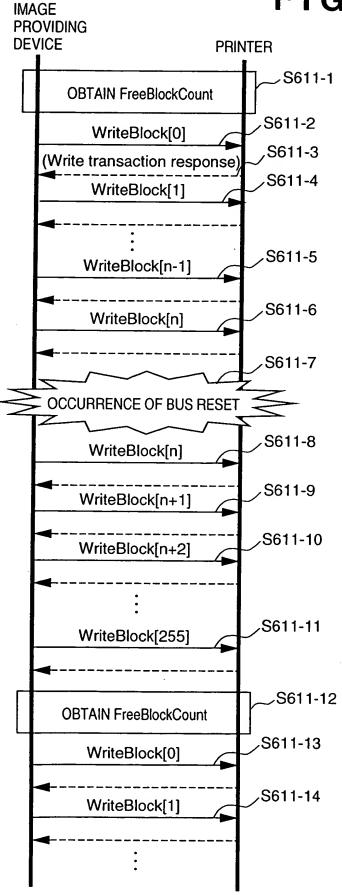
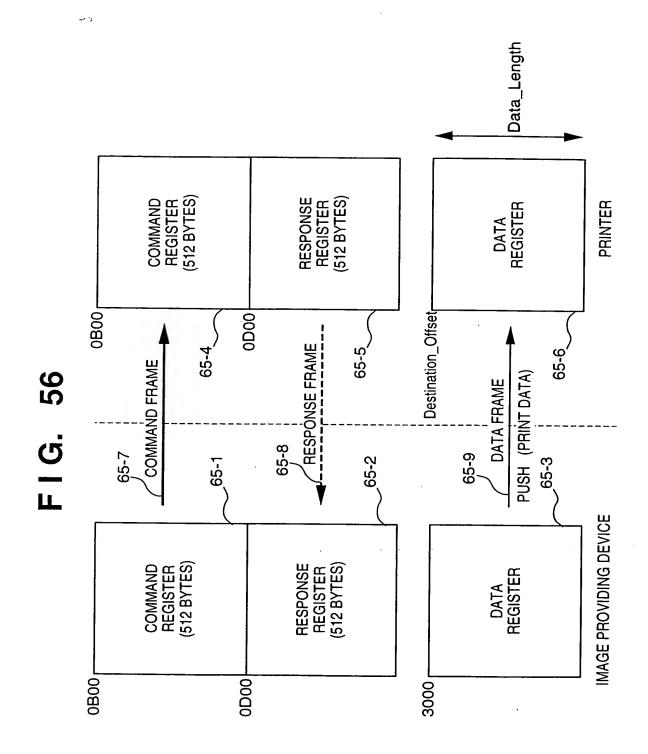


FIG. 55





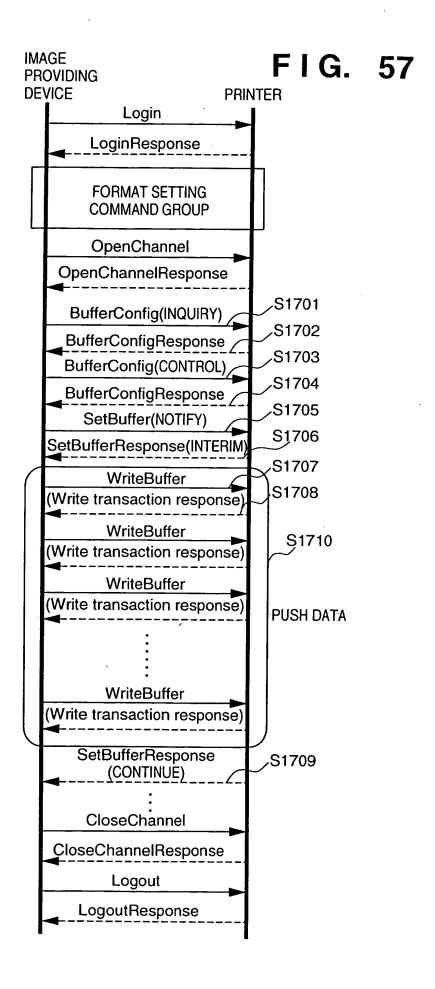


FIG. 58

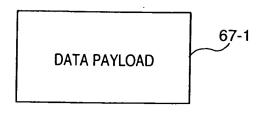
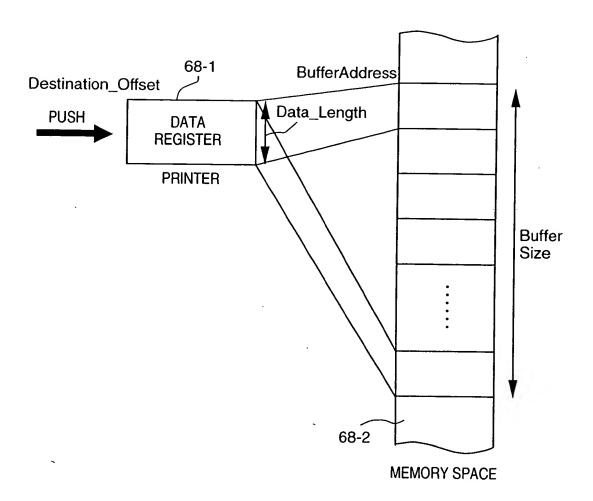
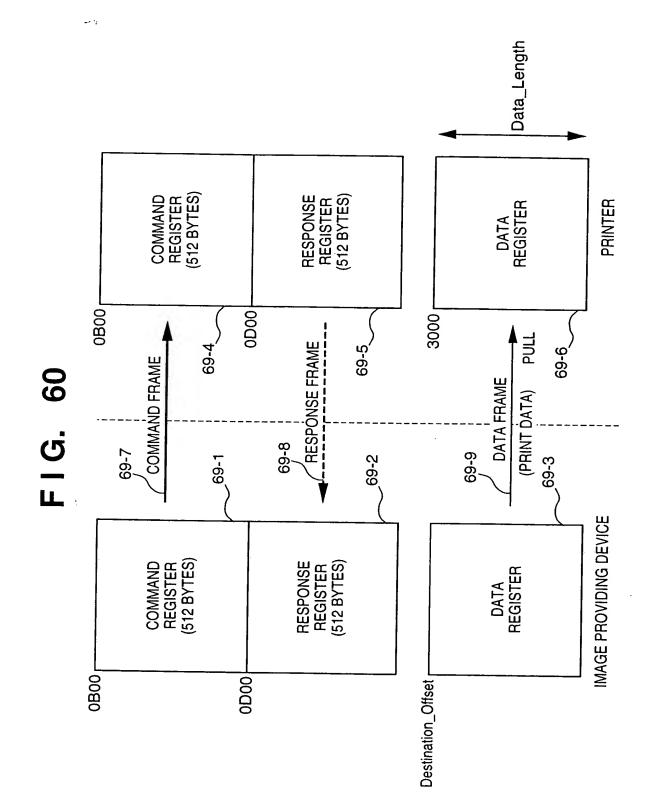


FIG. 59





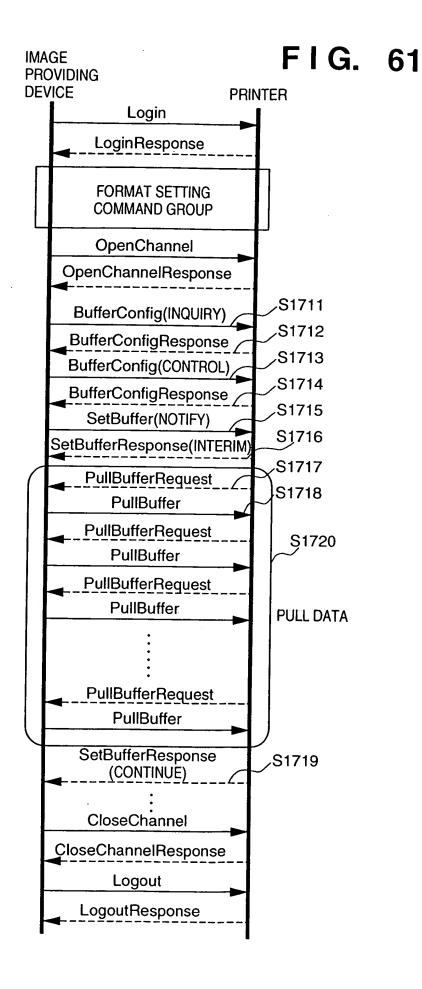


FIG. 62

